



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-12-11-59 Date: 08-11-18
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Intimation of work order to start the work of improvements to drains at
Kondappa layout in ward no.02 of Yelahanka Sub Division areas in ward
no. 01 of Yelahanka Sub Division
Agency : Sri. Prakash Naik, No.313, Verrannapalya, Arabic coege post, Bangalore
Customer's Reference : EE(YNK.D)E-PMT-02/W.O/73/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-11-18
Sample ID No : 2018-12-11-59 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 06-11-18
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

SL.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.64	—
2	Finess by Air permeability method (m ² /kg, Min)	296.6	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	290 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-12-11-59 Date: 07-11-18
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Intimation of work order to start the work of improvements to drains at Kondappa layout in ward no.02 of Yelahanka Sub Division areas in ward no. 01 of Yelahanka Sub Division
Agency : Sri. Prakash Naik, No.313, Verrannapalya, Arabic coege post, Bangalore
Customer Reference : EE(YNK.D)E-PMT-02/W.O/73/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 05-11-18
Sample ID No : 2018-12-11-59 /02(b)
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 05-11-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	155	155	3.1	96.9	90-100
3	10 mm	3344	3499	70.0	30.0	25-55
4	4.75 mm	1377	4876	97.5	2.5	0-10
5	Pan	124	5000	100	0	-

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-12-11-59 Date: 19/11/2018
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Intimation of work order to start the work of improvements to drains at Kondappa layout in ward no.02 of Yelahanka Sub Division areas in ward no. 01 of Yelahanka Sub Division
Agency : Sri. Prakash Naik, No.313, Verrannapalya, Arabic coege post, Bangalore
Customer's Reference : EE(YNK.D)E-PMT-02/W.O/73/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 14-11-18
Sample ID No : 2018-12-11-59 /01
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M20	12/11/2018	19/11/2018	150.54 X 150.45 X 150.49	22649	8.312	394.1	17.4	17.1
2	PCC	M20	12/11/2018	19/11/2018	150.54 X 150.43 X 150.41	22646	8.331	387.2	17.1	
3	PCC	M20	12/11/2018	19/11/2018	150.32 X 150.46 X 150.48	22617	8.345	380.0	16.8	

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A.E.E

AE-02

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/11/2018

CP-2018-12-11-59

: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
: Yelahanka Sub Division, BBMP, Bangalore.
: Intimation of work order to start the work of improvements to drains at Kondappa layout in ward no.02 of Yelahanka Sub Division areas in ward no. 01 of Yelahanka Sub Division
: Sri. Prakash Naik, No.313, Verrannapalya, Arabic coege post, Bangalore
: EE(YNK.D)E-PMT-02/W.O/73/2018-19
: Sample supplied by Agency
: Satisfactory
: 14-11-18
: 2018-12-11-59 /09
: PCC
: 150X150X150 mm
: M20 / 7 Days Compressive Strength
: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Lab ID

Customer

Address

Project Name

Agency

Customer's Reference

Source of Sample

Sample Condition

Date of Receipt

Sample ID No

Customer ID

Sample Type /Size

Sample grade/Age

Reference to BIS codes

Date of test : 19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M20	12/11/2018	19/11/2018	150.52 X 150.39 X 150.49	22637	8.312	405.2	17.9	17.8
2	PCC	M20	12/11/2018	19/11/2018	150.51 X 150.48 X 150.36	22649	8.331	403.1	17.8	
3	PCC	M20	12/11/2018	19/11/2018	150.48 X 150.53 X 150.35	22652	8.345	398.7	17.6	

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